

Data File : VL035663.D
Acq On : 17 Sep 2020 19:23
Operator : SY/AP
Sample : L3983-07DL2 100X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

Quant Time: Sep 18 02:33:16 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1149359	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4416540	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4432139	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 3270211 10.39 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 103.90%

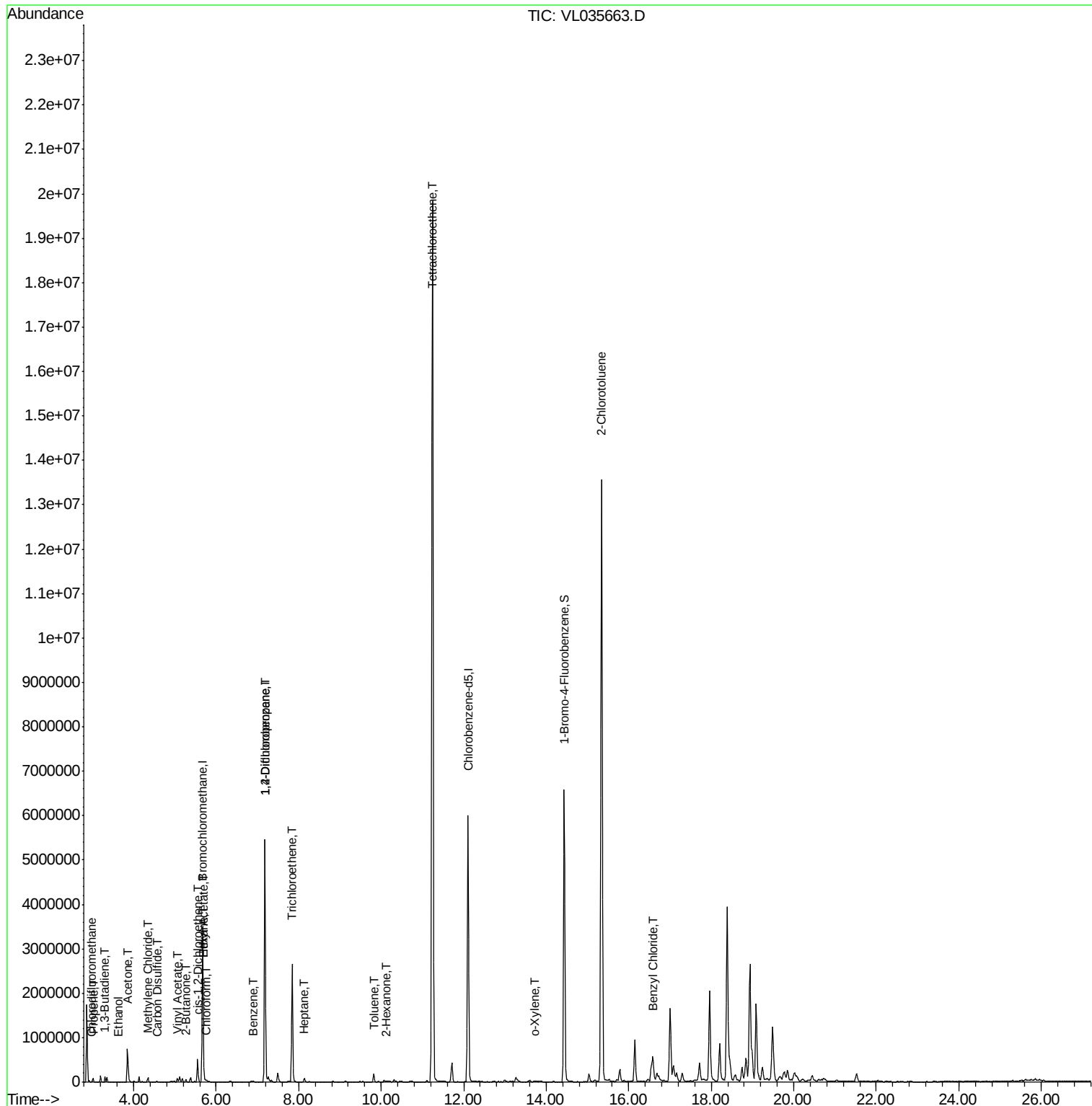
Target Compounds					Qvalue
3) Chlorodifluoromethane	2.98	51	4498	0.035 ppbv	92
9) Propene	3.01	41	13112	0.268 ppbv #	14
10) Heptane	8.14	43	23684	0.180 ppbv	99
13) Ethanol	3.61	45	2341	0.193 ppbv #	37
15) Acetone	3.85	43	752174	5.934 ppbv	100
16) 1,3-Butadiene	3.30	39	23240	0.492 ppbv #	6
20) Methylene Chloride	4.34	84	43419	0.460 ppbv	96
23) Vinyl Acetate	5.06	43	26859	0.165 ppbv #	1
25) Ethyl Acetate	5.69	43	34627	0.155 ppbv #	73
26) Hexane	5.69	57	59429	0.468 ppbv #	47
27) Carbon Disulfide	4.55	76	5989	0.033 ppbv #	67
29) Chloroform	5.75	83	19083	0.074 ppbv	94
31) cis-1,2-Dichloroethene	5.55	61	239957	1.843 ppbv	98
34) 2-Butanone	5.27	43	52302	0.399 ppbv	98
36) Benzene	6.90	78	22079	0.077 ppbv #	93
38) Trichloroethene	7.84	130	927659	5.586 ppbv	97
39) 1,2-Dichloropropane	7.18	63	851869	8.821 ppbv #	32
51) 2-Hexanone	10.12	43	4745	0.030 ppbv #	20
52) Tetrachloroethene	11.25	164	5931344	35.514 ppbv #	85
53) Toluene	9.82	91	151054	0.420 ppbv	95
60) o-Xylene	13.71	91	15076	0.039 ppbv	92
66) Benzyl Chloride	16.58	91	105302	0.738 ppbv #	61
71) 2-Chlorotoluene	15.34	91	3914874	8.701 ppbv #	36

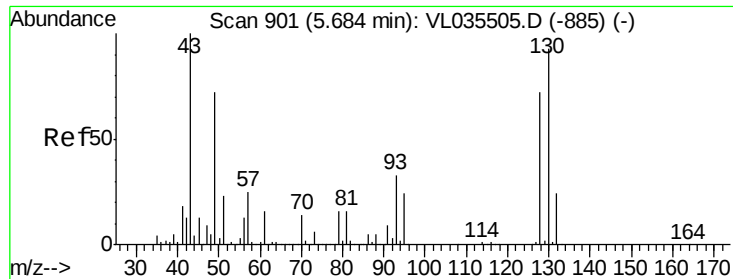
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

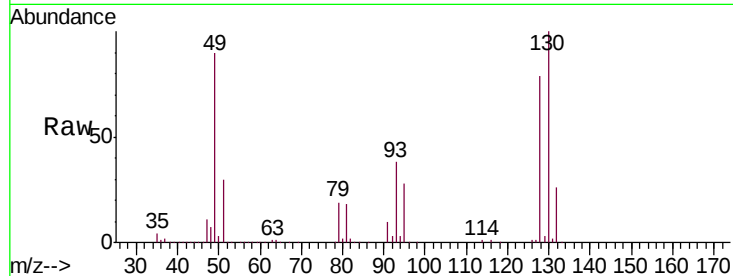
Tgt Ion: 49 Resp: 1149359

Ion Ratio Lower Upper

49 100

128 88.6 50.0 150.1

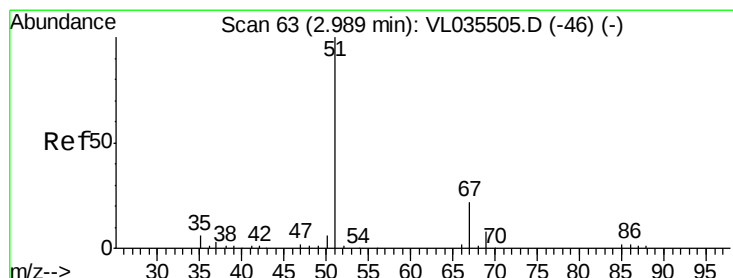
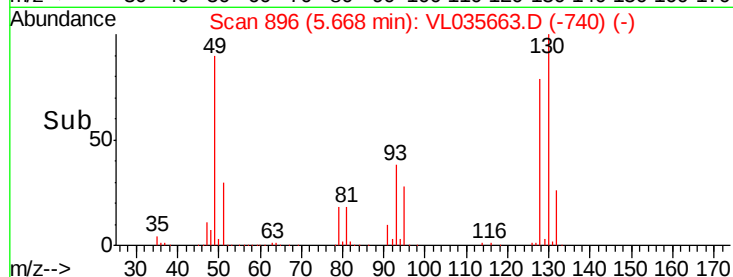
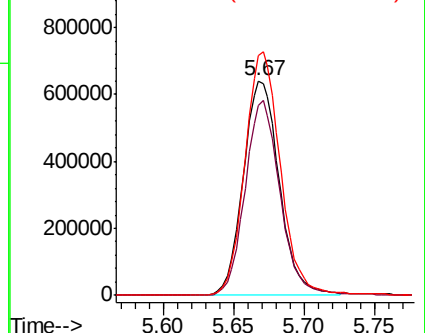
130 112.9 64.4 193.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035663.D

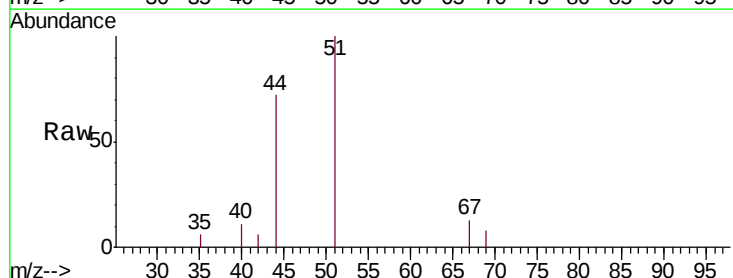
Acq: 17 Sep 2020 19:23

Tgt Ion: 51 Resp: 4498

Ion Ratio Lower Upper

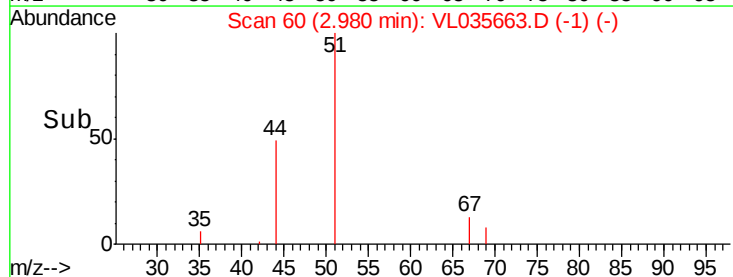
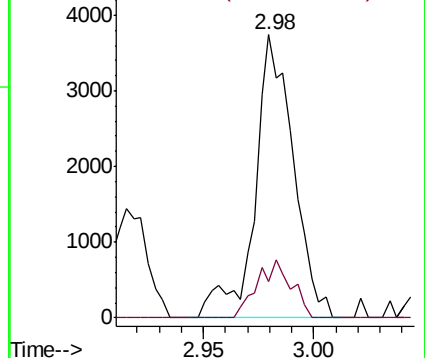
51 100

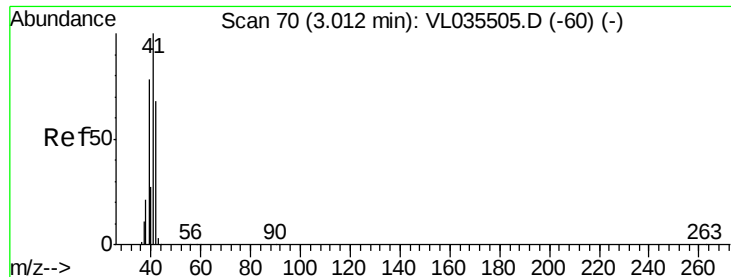
67 18.3 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.268 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

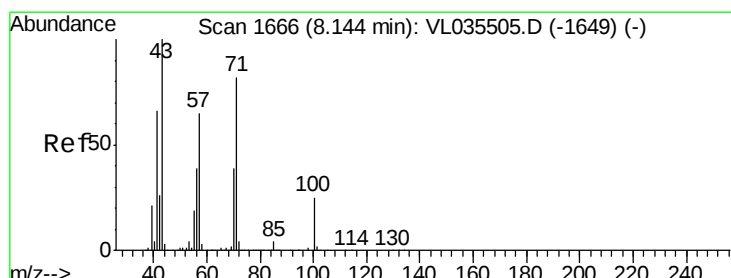
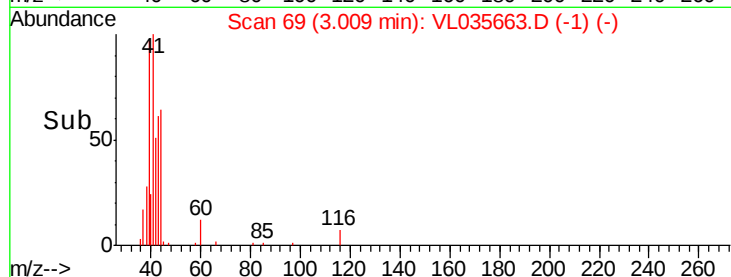
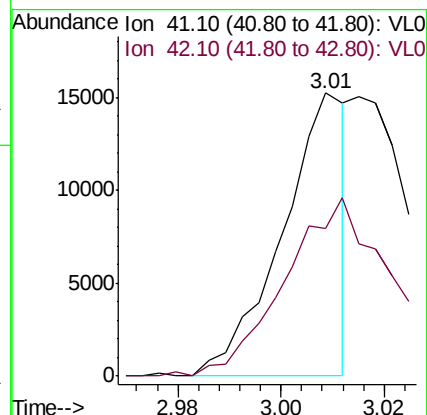
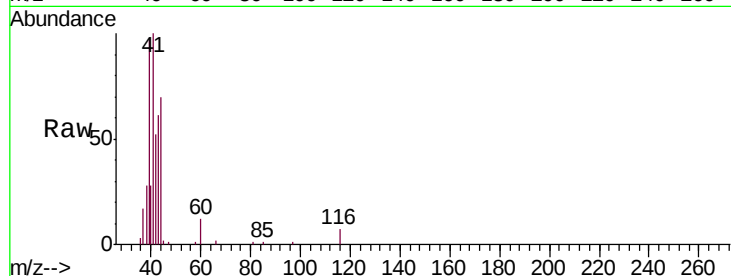
SV-10DL2

Tgt Ion: 41 Resp: 13112

Ion Ratio Lower Upper

41 100

42 0.0 56.3 84.5#



#10

Heptane

Concen: 0.180 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL035663.D

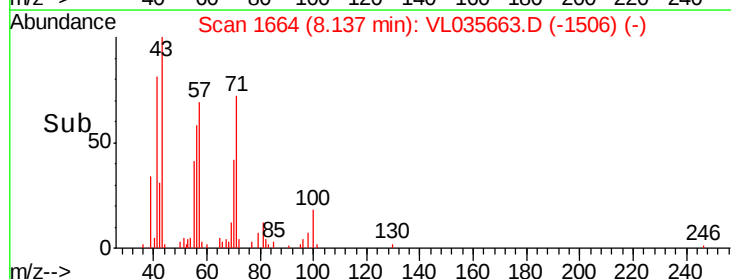
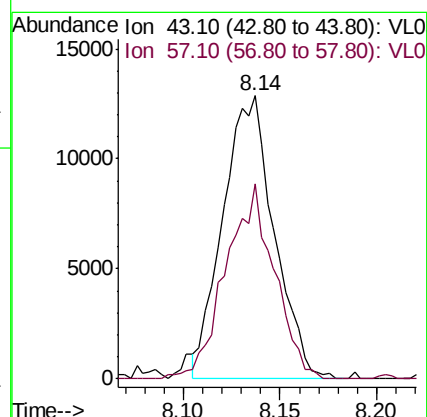
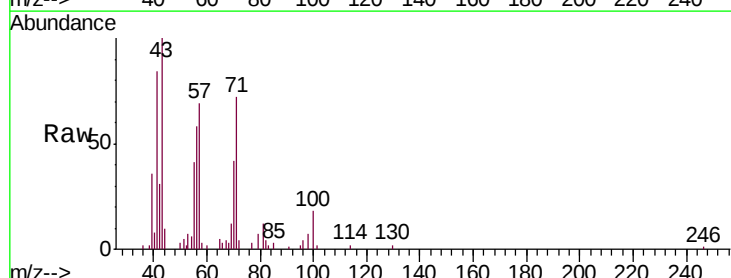
Acq: 17 Sep 2020 19:23

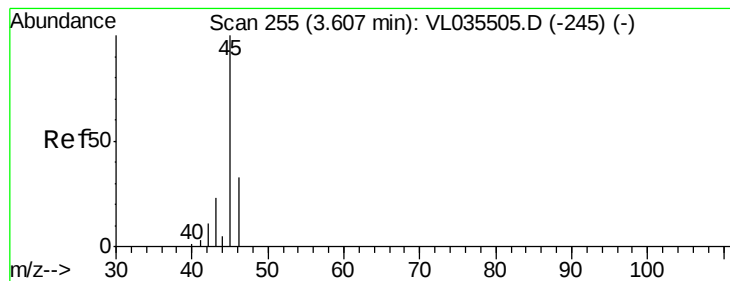
Tgt Ion: 43 Resp: 23684

Ion Ratio Lower Upper

43 100

57 65.0 51.4 77.0





#13

Ethanol

Concen: 0.193 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.02 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

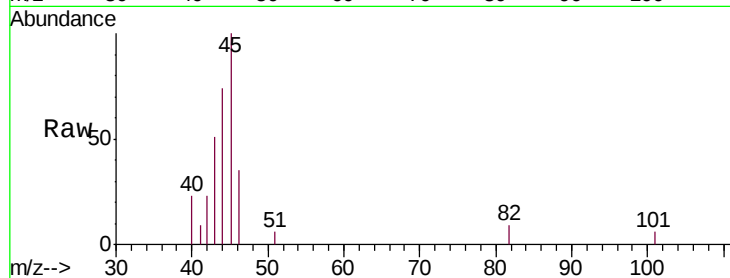
SV-10DL2

Tgt Ion: 45 Resp: 2341

Ion Ratio Lower Upper

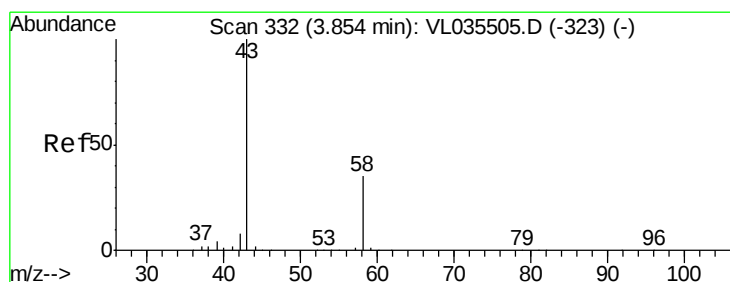
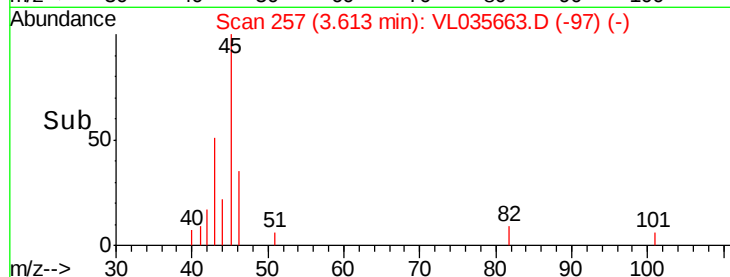
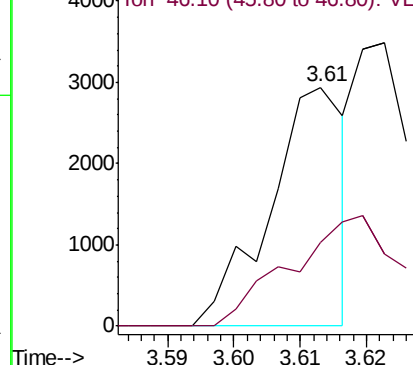
45 100

46 0.0 15.2 60.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 5.934 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL035663.D

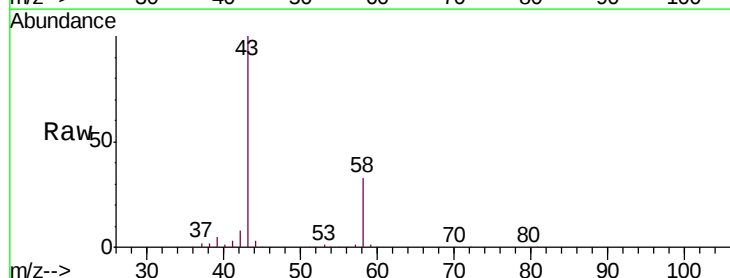
Acq: 17 Sep 2020 19:23

Tgt Ion: 43 Resp: 752174

Ion Ratio Lower Upper

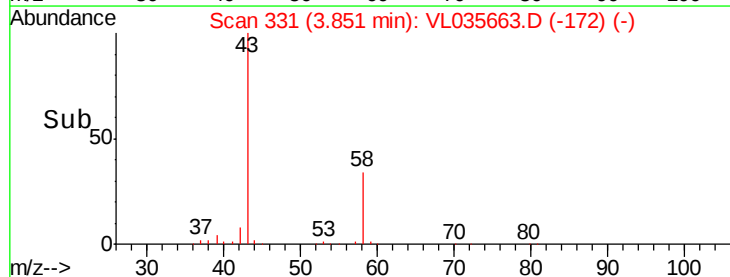
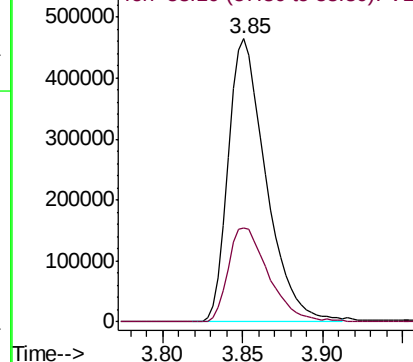
43 100

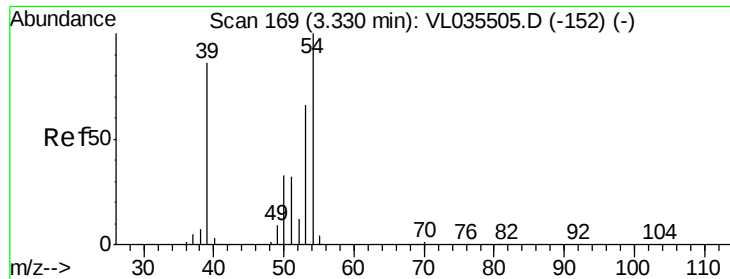
58 35.8 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

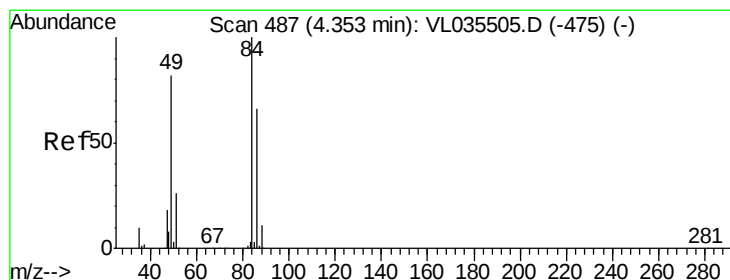
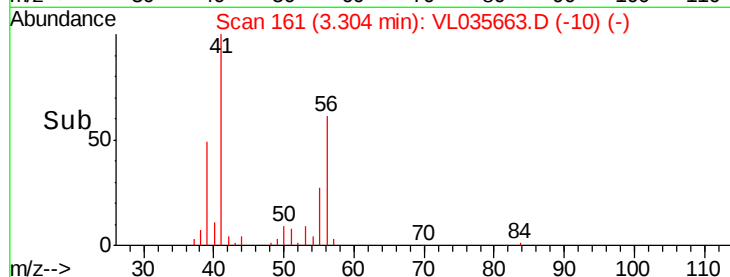
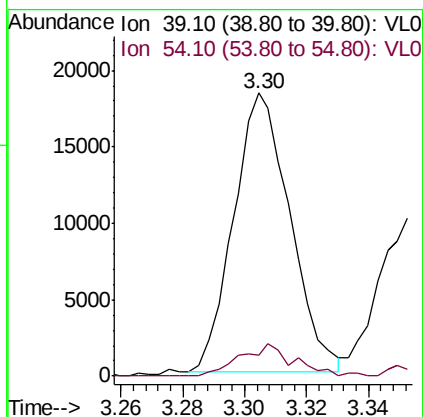
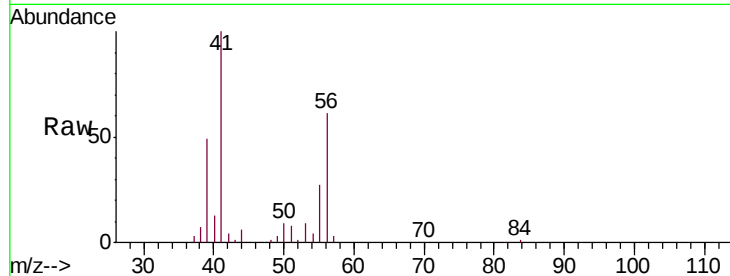




#16
 1,3-Butadiene
 Concen: 0.492 ppbv
 RT: 3.30 min Scan# 161
 Delta R.T. -0.01 min
 Lab File: VL035663.D
 Acq: 17 Sep 2020 19:23

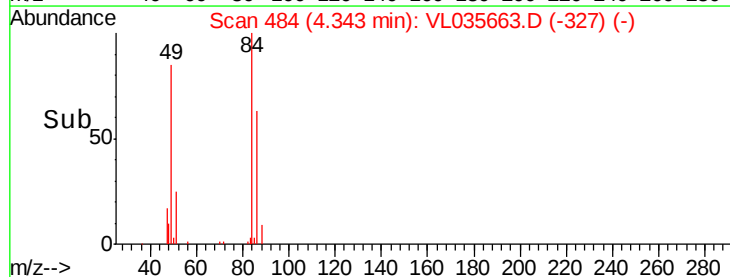
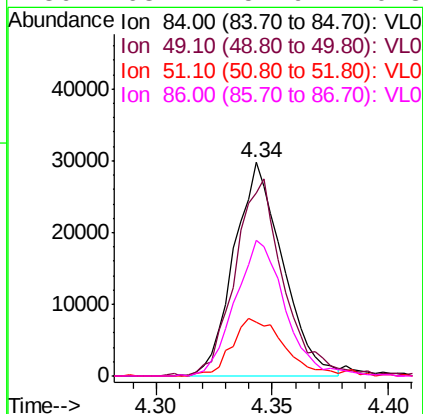
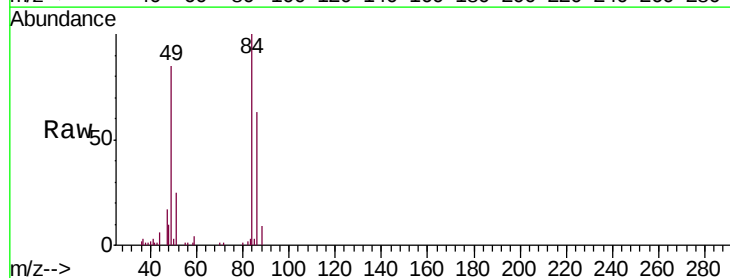
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DL2

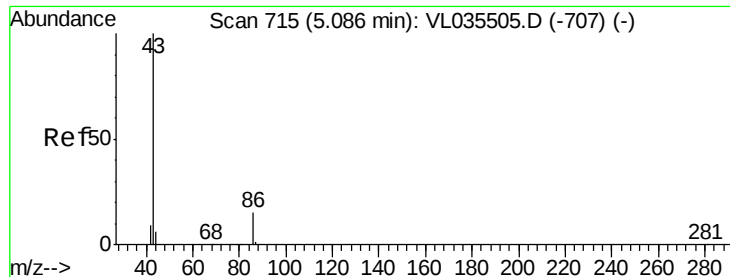
Tgt Ion: 39 Resp: 23240
 Ion Ratio Lower Upper
 39 100
 54 11.2 88.4 132.6#



#20
 Methylene Chloride
 Concen: 0.460 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. 0.01 min
 Lab File: VL035663.D
 Acq: 17 Sep 2020 19:23

Tgt Ion: 84 Resp: 43419
 Ion Ratio Lower Upper
 84 100
 49 84.9 65.4 98.0
 51 24.9 21.5 32.3
 86 63.4 52.9 79.3





#23

Vinyl Acetate

Concen: 0.165 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Instrument :

MSVOA_L

ClientSampled :

SV-10DL2

Tgt Ion: 43 Resp: 26859

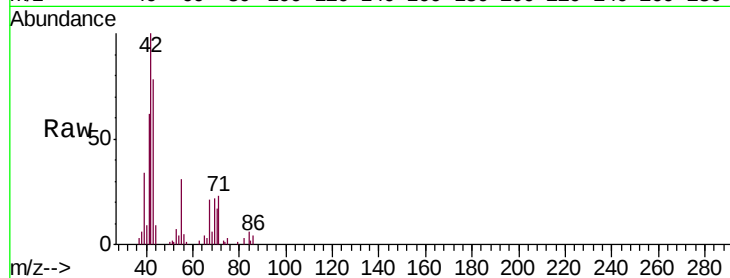
Ion Ratio Lower Upper

43 100

86 4.6 10.6 16.0#

42 127.8 7.5 11.3#

44 1.3 4.4 6.6#

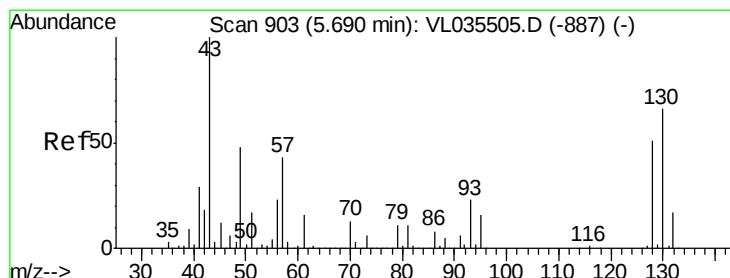
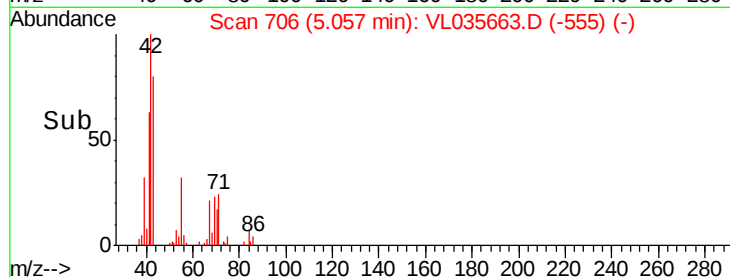
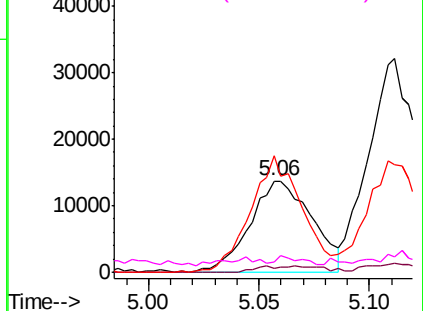


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.155 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.02 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Tgt Ion: 43 Resp: 34627

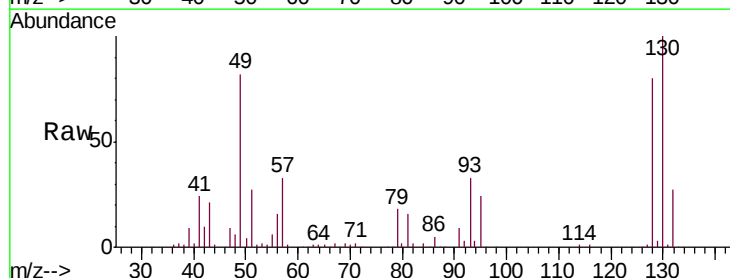
Ion Ratio Lower Upper

43 100

45 1.0 8.4 12.6#

61 0.0 10.6 16.0#

70 3.0 9.4 14.2#

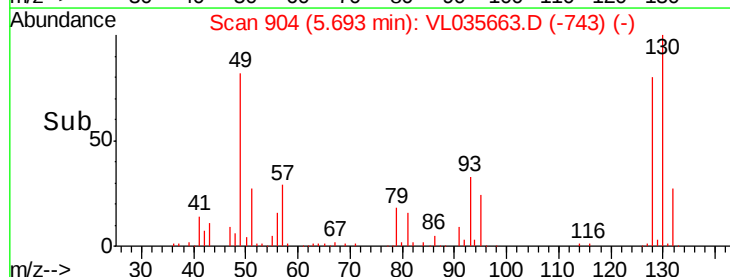
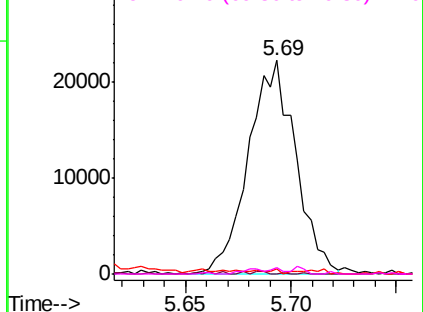


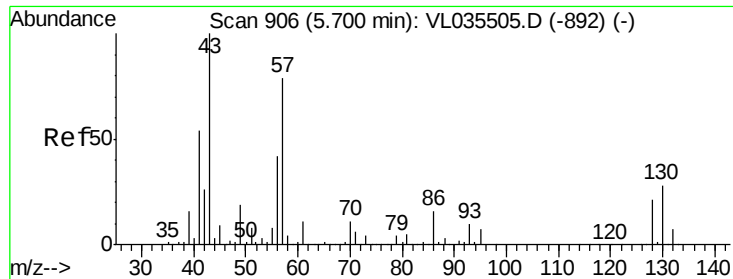
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

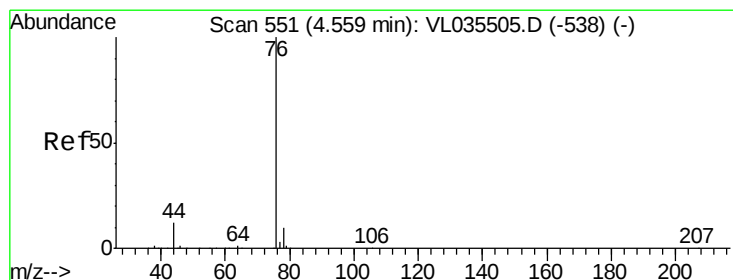
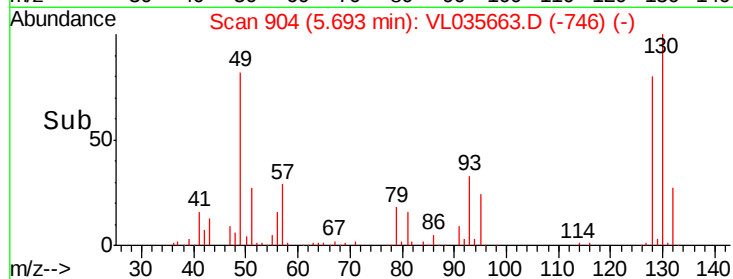
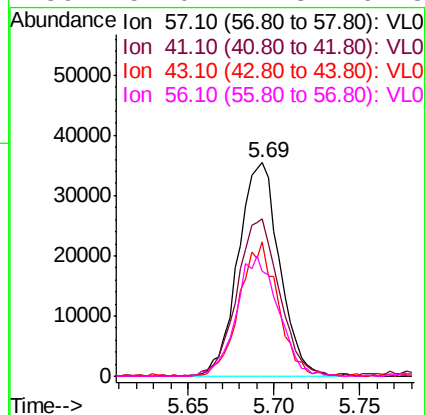
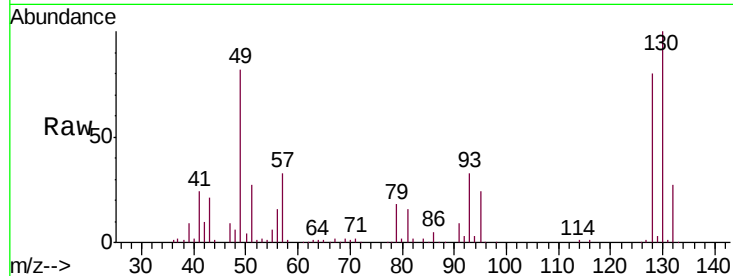




#26
Hexane
Concen: 0.468 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

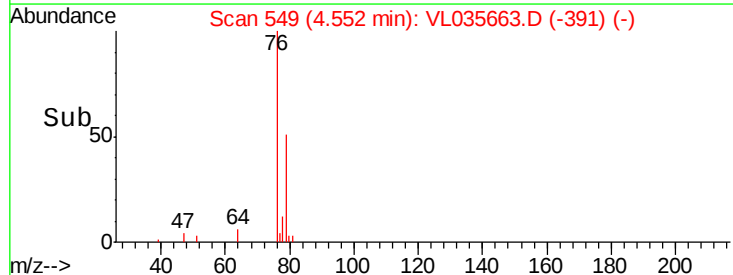
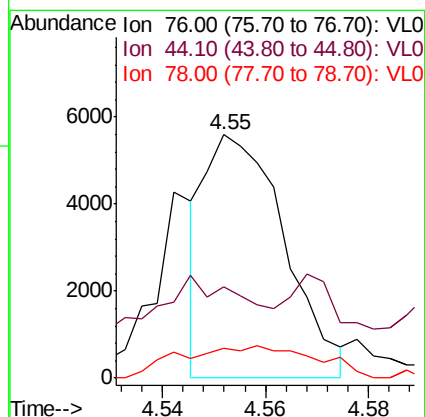
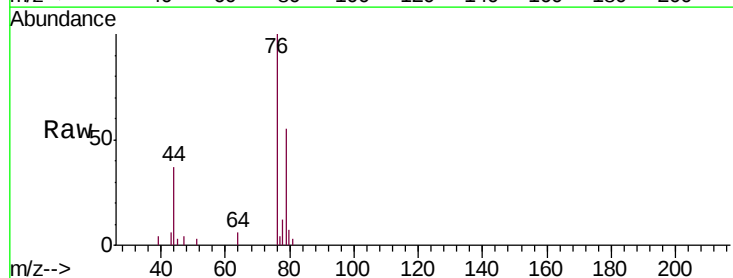
Instrument :
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SV-10DL2

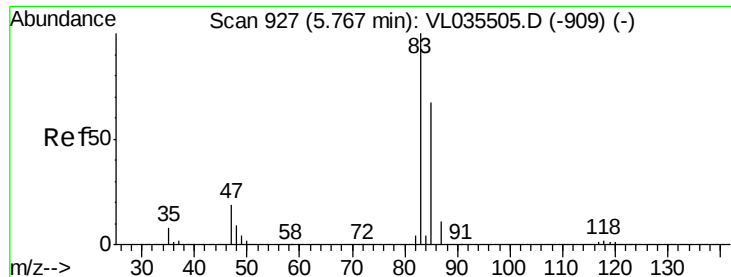
Tgt Ion: 57 Resp: 59429
Ion Ratio Lower Upper
57 100
41 76.1 55.9 83.9
43 59.1 141.8 212.8#
56 57.0 41.8 62.8



#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

Tgt Ion: 76 Resp: 5989
Ion Ratio Lower Upper
76 100
44 0.0 9.3 13.9#
78 23.4 7.8 11.6#

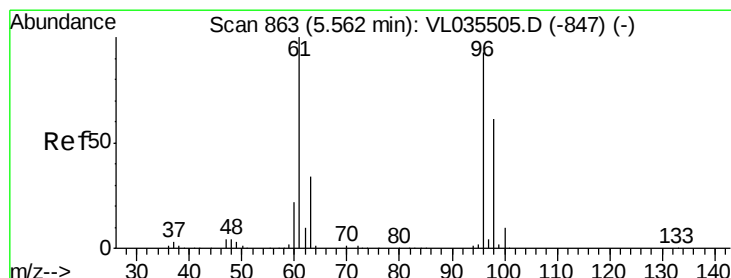
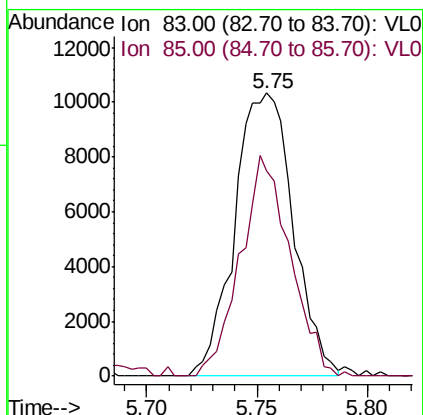
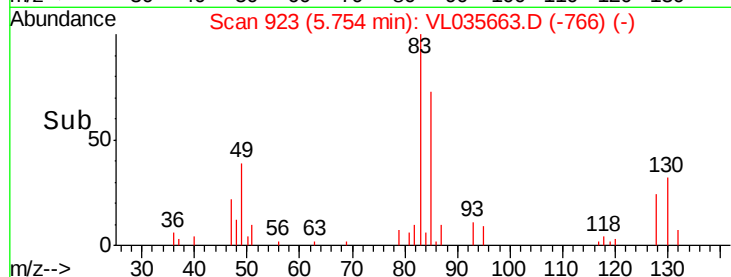
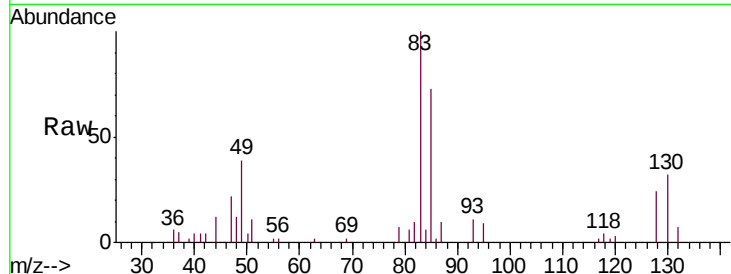




#29
Chloroform
Concen: 0.074 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

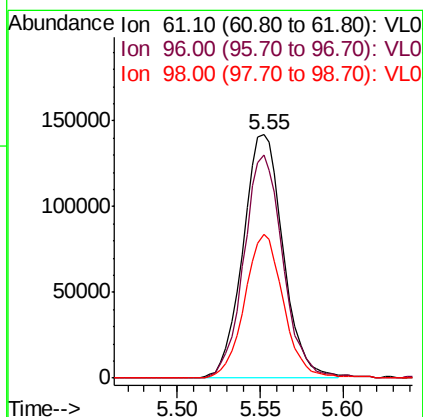
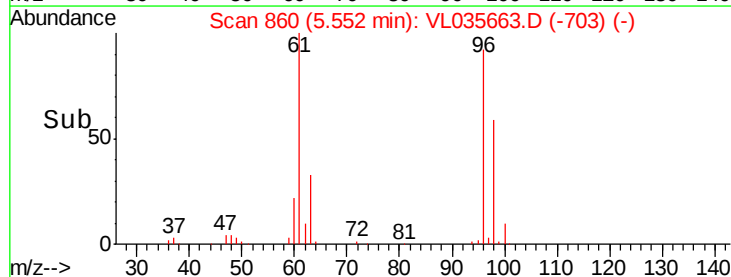
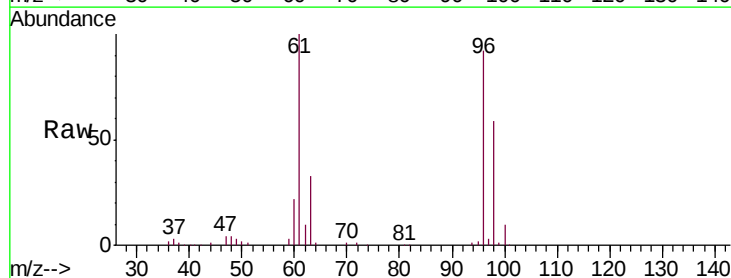
Instrument :
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SV-10DL2

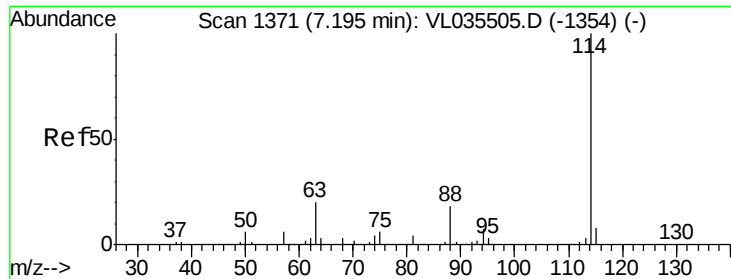
Tgt Ion: 83 Resp: 19083
Ion Ratio Lower Upper
83 100
85 72.6 53.9 80.9



#31
cis-1,2-Dichloroethene
Concen: 1.843 ppbv
RT: 5.55 min Scan# 860
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

Tgt Ion: 61 Resp: 239957
Ion Ratio Lower Upper
61 100
96 91.9 74.4 111.6
98 58.9 49.2 73.8

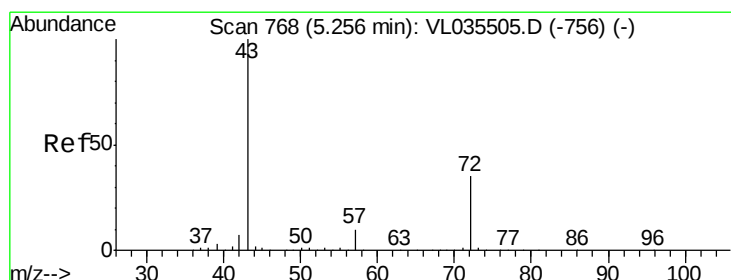
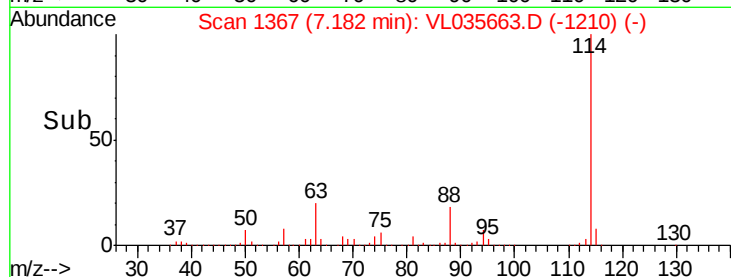
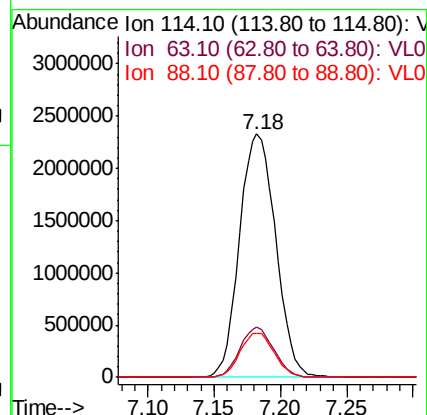
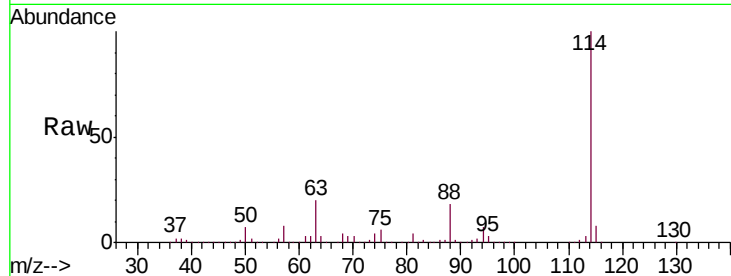




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. 0.01 min
 Lab File: VL035663.D
 Acq: 17 Sep 2020 19:23

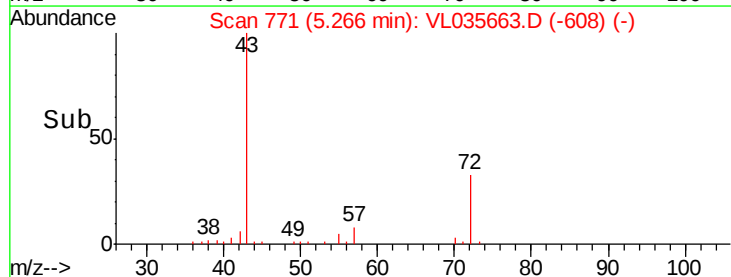
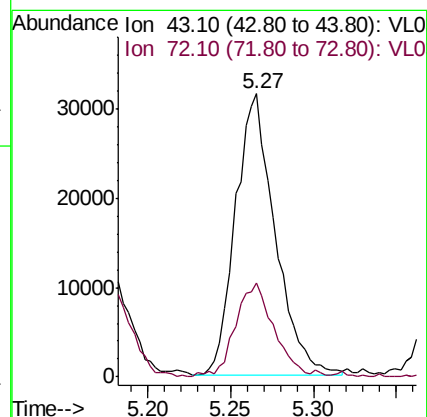
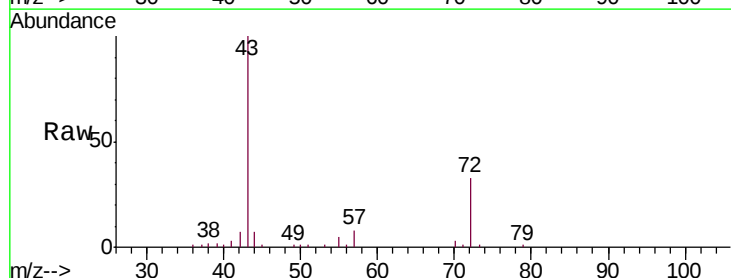
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DL2

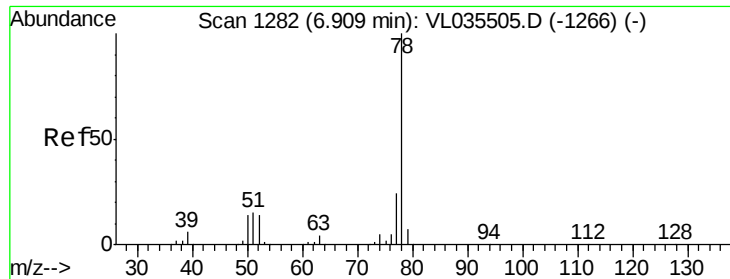
Tgt Ion:114 Resp: 4416540
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.7 22.1
 88 17.3 13.4 20.2



#34
 2-Butanone
 Concen: 0.399 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.03 min
 Lab File: VL035663.D
 Acq: 17 Sep 2020 19:23

Tgt Ion: 43 Resp: 52302
 Ion Ratio Lower Upper
 43 100
 72 33.5 27.7 41.5

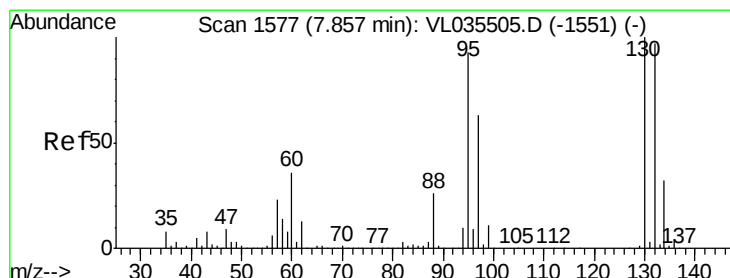
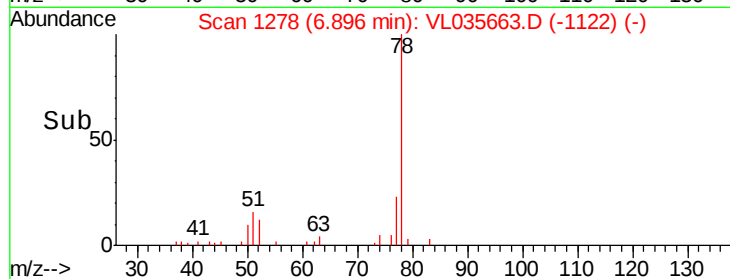
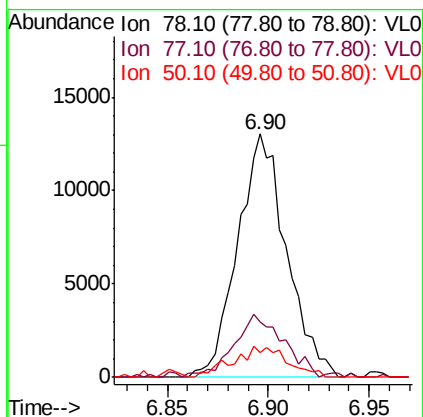
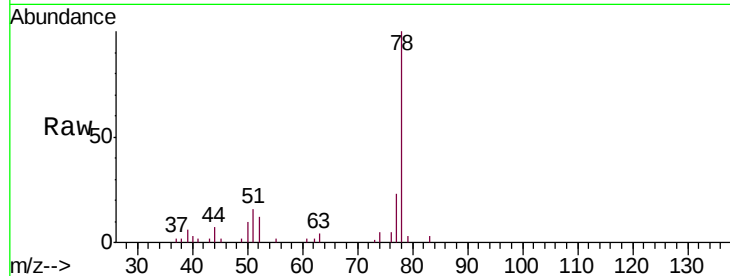




#36
Benzene
Concen: 0.077 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.00 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

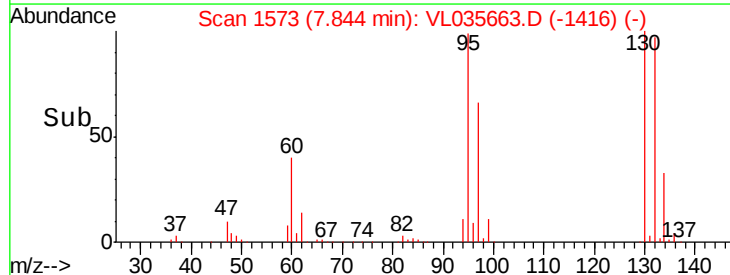
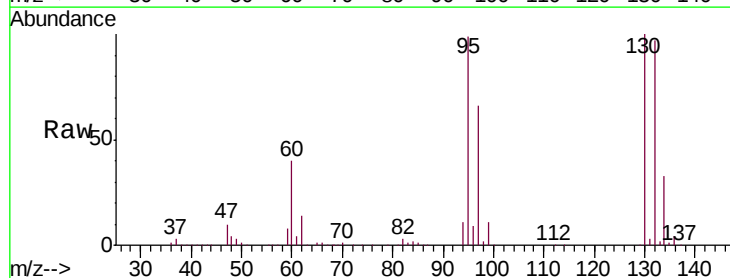
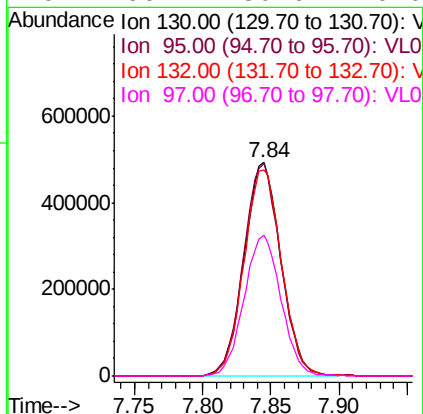
Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

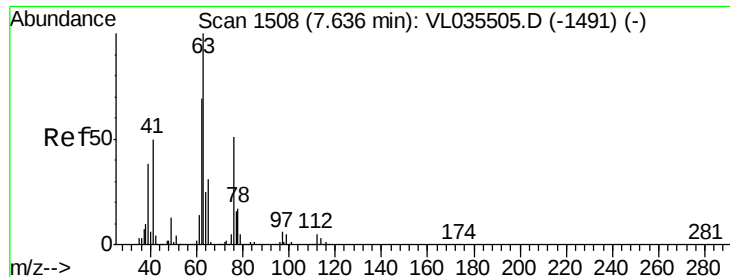
Tgt Ion: 78 Resp: 22079
Ion Ratio Lower Upper
78 100
77 21.1 19.3 28.9
50 10.0 11.0 16.6#



#38
Trichloroethene
Concen: 5.586 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

Tgt Ion: 130 Resp: 927659
Ion Ratio Lower Upper
130 100
95 99.3 74.6 112.0
132 96.5 77.6 116.4
97 66.2 50.6 76.0





#39

1,2-Dichloropropane

Concen: 8.821 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.43 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

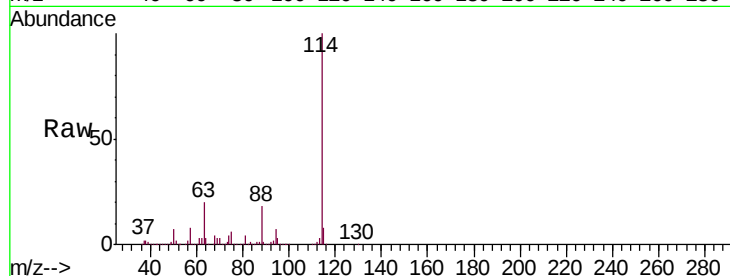
Tgt Ion: 63 Resp: 851869

Ion Ratio Lower Upper

63 100

41 0.3 40.0 60.0#

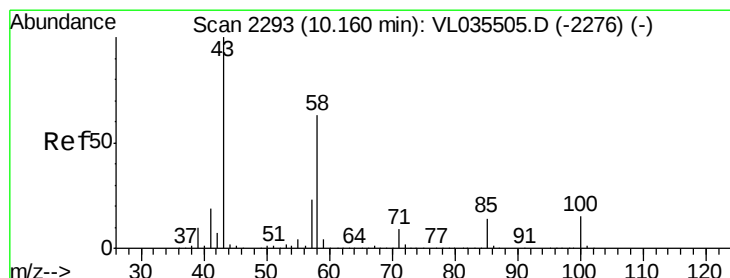
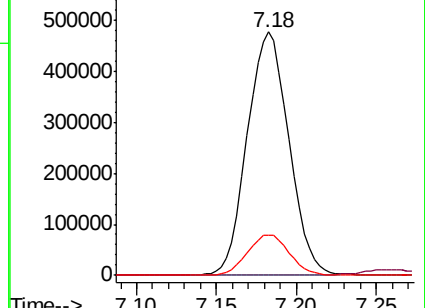
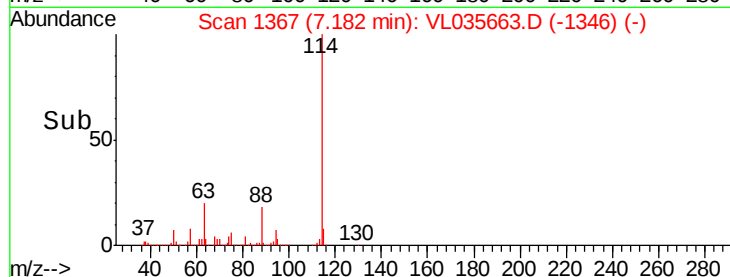
62 16.7 55.4 83.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#51

2-Hexanone

Concen: 0.030 ppbv

RT: 10.12 min Scan# 2282

Delta R.T. -0.01 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

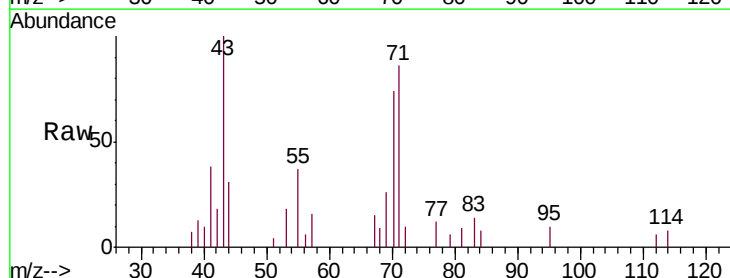
Tgt Ion: 43 Resp: 4745

Ion Ratio Lower Upper

43 100

58 0.0 50.2 75.4#

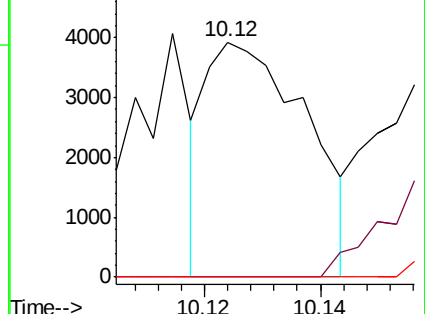
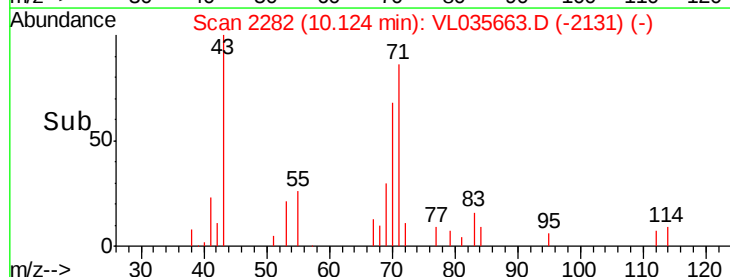
98 0.0 0.4 0.6#

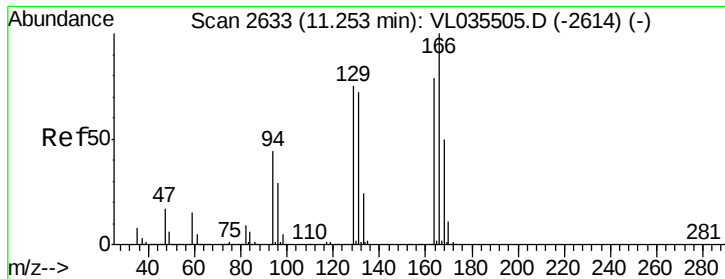


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 35.514 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. 0.02 min

Lab File: VL035663.D

Acq: 17 Sep 2020 19:23

Instrument :

MSVOA_L

ClientSampleId :

SV-10DL2

Tgt Ion:164 Resp: 5931344

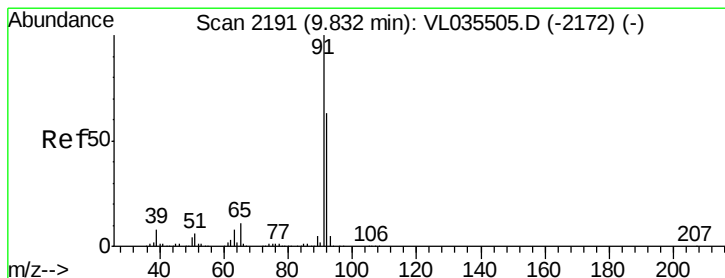
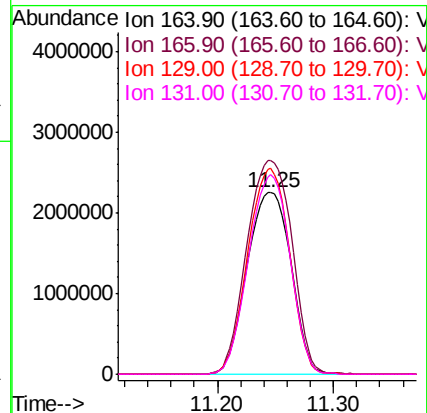
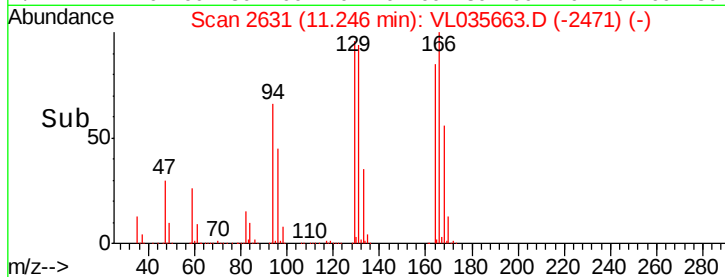
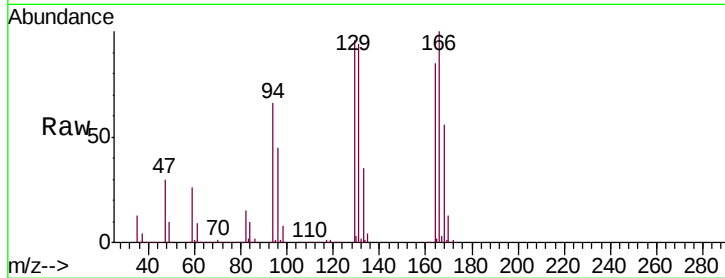
Ion Ratio Lower Upper

164 100

166 117.6 100.9 151.3

129 113.2 75.3 112.9#

131 110.0 73.0 109.4#



#53

Toluene

Concen: 0.420 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.01 min

Lab File: VL035663.D

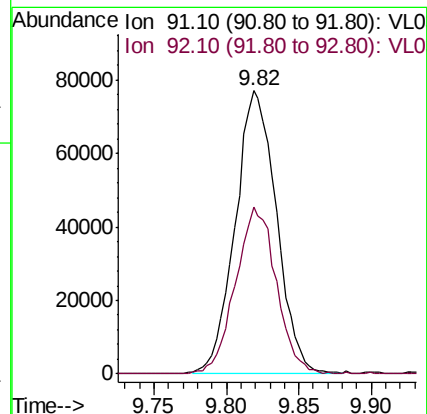
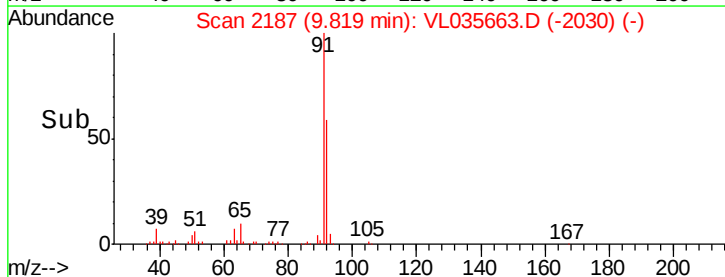
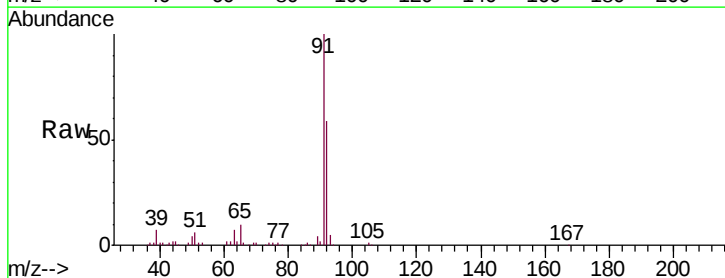
Acq: 17 Sep 2020 19:23

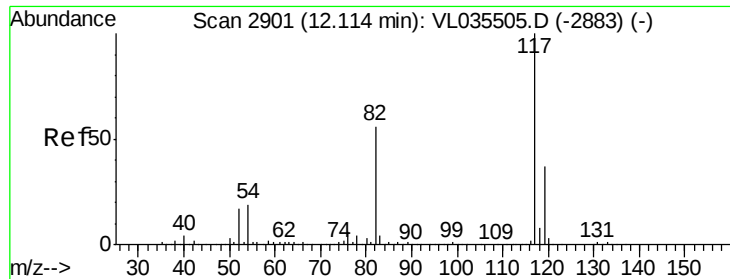
Tgt Ion: 91 Resp: 151054

Ion Ratio Lower Upper

91 100

92 58.7 49.8 74.8

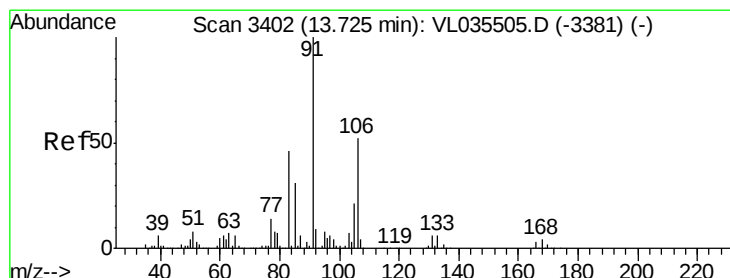
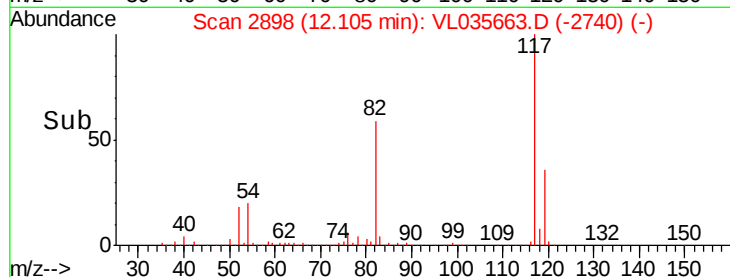
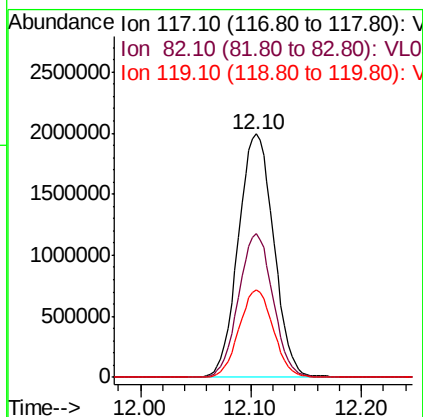
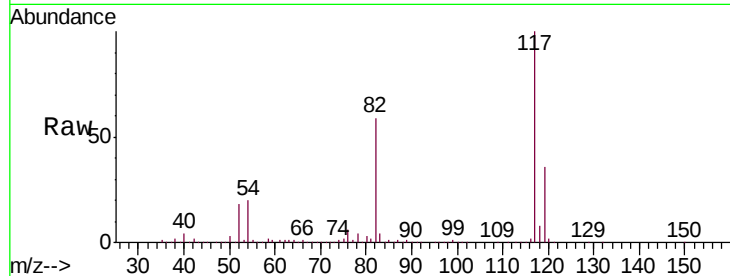




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

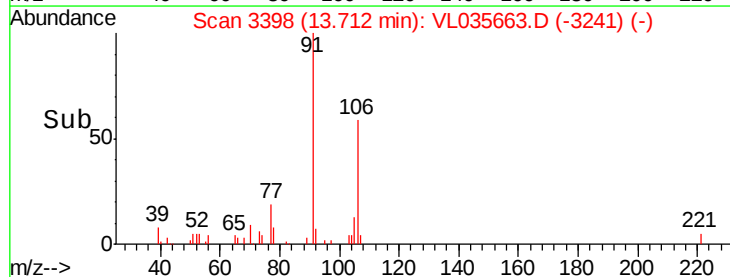
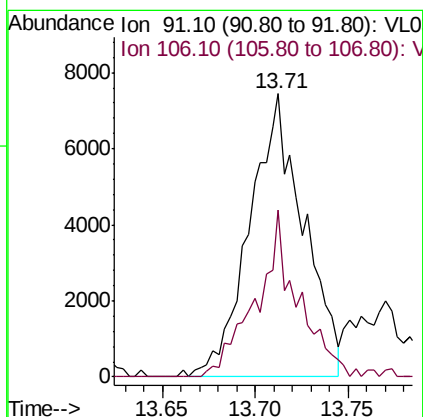
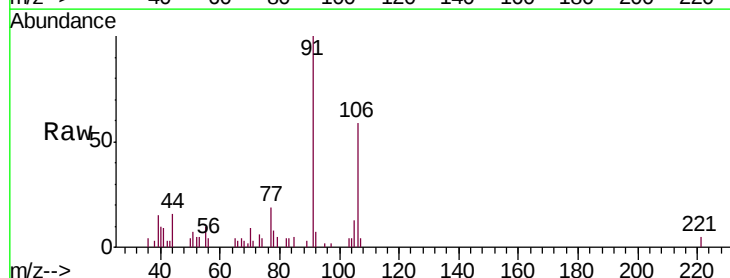
Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

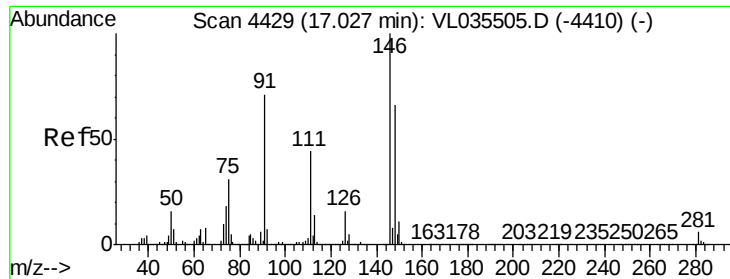
Tgt Ion:117 Resp: 4432139
Ion Ratio Lower Upper
117 100
82 57.2 41.6 62.4
119 34.7 29.3 43.9



#60
o-Xylene
Concen: 0.039 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

Tgt Ion: 91 Resp: 15076
Ion Ratio Lower Upper
91 100
106 46.0 25.8 77.4

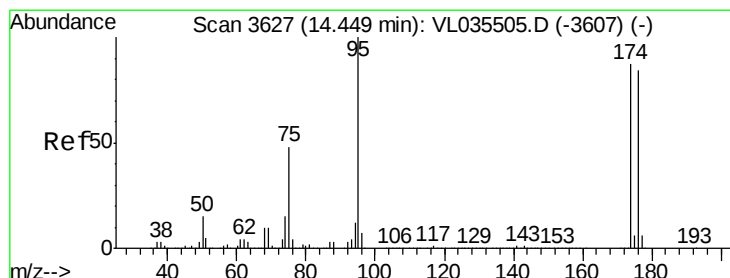
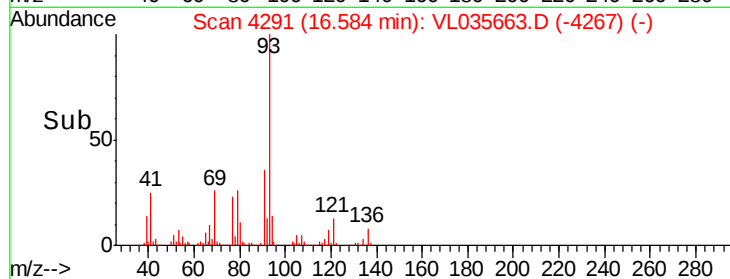
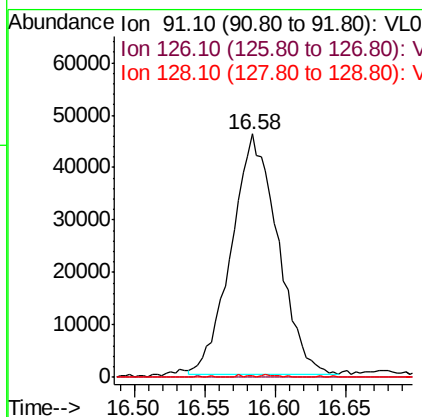
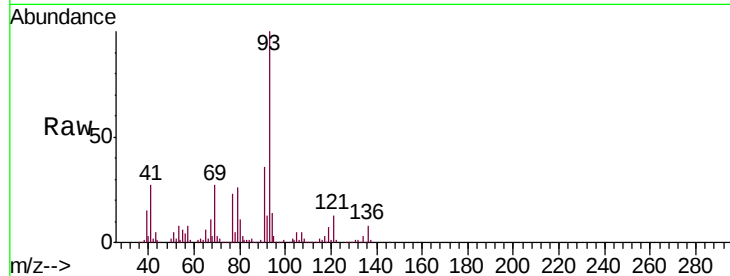




#66
Benzyl Chloride
Concen: 0.738 ppbv
RT: 16.58 min Scan# 4291
Delta R.T. -0.42 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

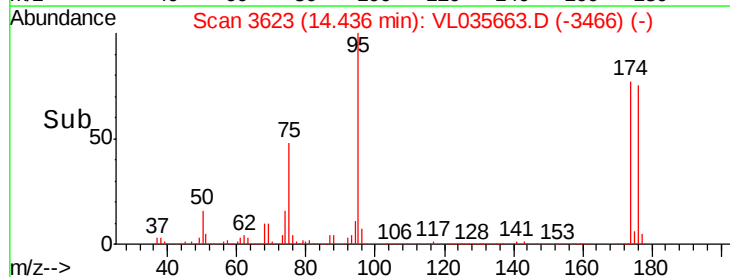
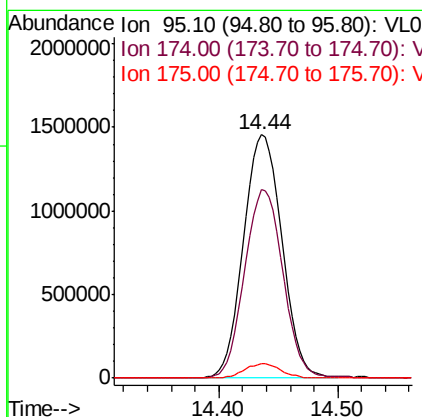
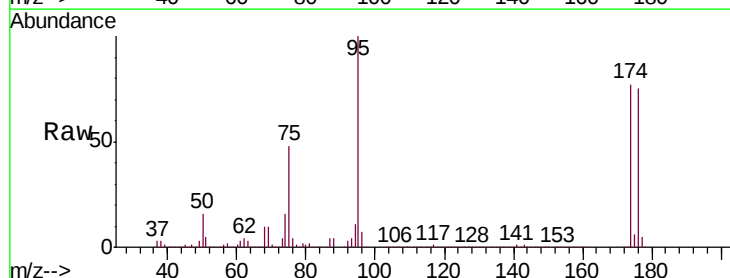
Instrument :
MSVOA_L
ClientSampleId :
SV-10DL2

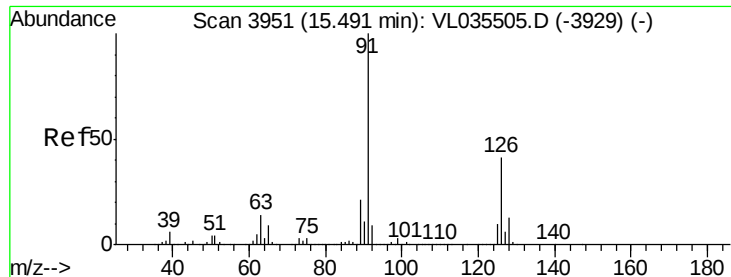
Tgt Ion: 91 Resp: 105302
Ion Ratio Lower Upper
91 100
126 0.0 17.2 25.8#
128 0.4 5.5 8.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.390 ppbv
RT: 14.44 min Scan# 3623
Delta R.T. 0.01 min
Lab File: VL035663.D
Acq: 17 Sep 2020 19:23

Tgt Ion: 95 Resp: 3270211
Ion Ratio Lower Upper
95 100
174 77.8 69.6 104.4
175 5.7 5.1 7.7

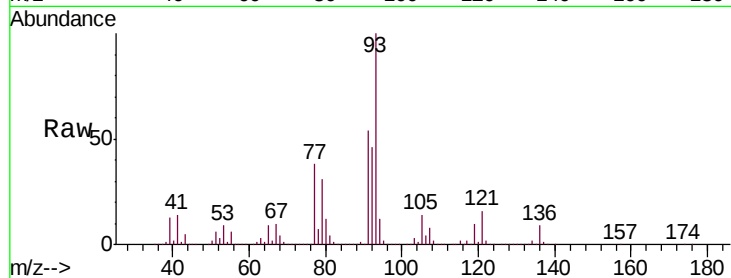




#71
 2-Chlorotoluene
 Concen: 8.701 ppbv
 RT: 15.34 min Scan# 3905
 Delta R.T. -0.13 min
 Lab File: VL035663.D
 Acq: 17 Sep 2020 19:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-10DL2

Tgt Ion: 91 Resp: 3914874
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.6 62.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V

